

**CoreFocus**  
**Report**  
**No.293**

LC

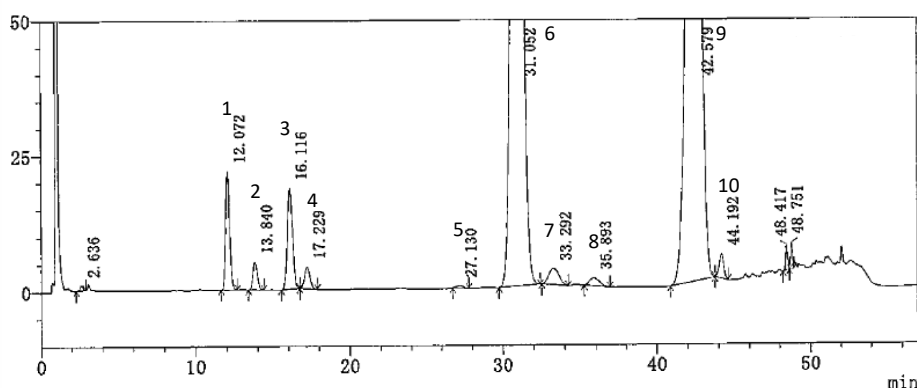
Reversed-phase

Shim-pack Series

**Shim-pack™ GIS C18**

**Analysis of Cefpodoxime Proxetil  
Related Substances**

**Keywords:** antibiotic



1. Impurity J- I
2. Impurity K- I
3. Impurity J- II
4. Impurity K- II
5. Impurity B- I
6. Cefpodoxime proxetil isomer-A
7. Impurity C+ B- II
8. Impurity D- I
9. Cefpodoxime proxetil isomer-B
10. Impurity D- II

**Sample:** System suitability solution  
Take Cefpodoxime Proxetil reference (approximately equivalent to 50 mg of Cefpodoxime), put it in a 50 mL measuring flask, add a diluting solvent [water-acetonitrile-acetic acid (99:99: 2)], and place a UV lamp after irradiating for 12 hours, add 3 mL of 30 % hydrogen peroxide solution, leave it for 60 minutes, dilute to the mark with the above diluent solvent.

Column	: Shim-pack GIS C18 (100 mm x 2.1 mm I.D., 2 µm), P/N : 227-30093-04
Mobile phase	: A) Water : Methanol : Formic acid = 700 : 300 : 1 B) Water : Methanol : Formic acid = 50 : 950 : 1
Time program	: B conc. 12 % (0-40 min) → 90 % (50-51 min) → 12 % (52-57 min)
Flow rate	: 0.3 mL/min
Column temp.	: 30 °C
Injection vol.	: 5 µL
Vial	: SHIMADZU LabTotal™ Vial for LC/LCMS, P/N : 227-34001-01
Detection	: UV at 254 nm

CoreFocus, Shim-pack and LabTotal are trademarks of Shimadzu Corporation or its affiliated companies in Japan and/or other countries.

**Shimadzu Corporation**  
[www.shimadzu.com/an/](http://www.shimadzu.com/an/)

**For Research Use Only. Not for use in diagnostic procedures.**

This publication may contain references to products that are not available in your country. Please contact us to check the availability of these products in your country.

The content of this publication shall not be reproduced, altered or sold for any commercial purpose without the written approval of Shimadzu.

Company names, products/service names and logos used in this publication are trademarks and trade names of Shimadzu Corporation, its subsidiaries or its affiliates, whether or not they are used with trademark symbol "TM" or "®". Third-party trademarks and trade names may be used in this publication to refer to either the entities or their products/services, whether or not they are used with trademark symbol "TM" or "®".

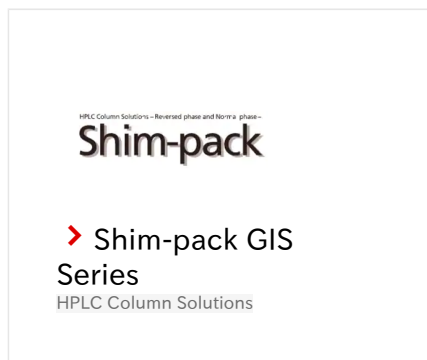
Shimadzu disclaims any proprietary interest in trademarks and trade names other than its own.

The information contained herein is provided to you "as is" without warranty of any kind including without limitation warranties as to its accuracy or completeness. Shimadzu does not assume any responsibility or liability for any damage, whether direct or indirect, relating to the use of this publication. This publication is based upon the information available to Shimadzu on or before the date of publication, and subject to change without notice.

➤ Please fill out the survey

## Related Products

Some products may be updated to newer models.



## Related Solutions

➤ Small Molecule  
Pharmaceutical

➤ 低分子医薬品

➤ Price Inquiry

➤ Product Inquiry

➤ Technical Service /  
Support Inquiry

➤ Other Inquiry